

**CHEMISTRY
RESEARCH**

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VIKE SCIENCE STUDENTS HAROLD SINCLAIR, GLENDA HILEY, AND BILL ZEWADSKI
WORKING ON RESEARCH.

**Northeast Chemistry Students
Working On Scientific Research**

by Janice Goode

This year Northeast has the distinction of being one of the first high schools in this area to have students who are working on scientific research. Eight very capable chemistry students under the direction of Walter Swan are co-operating with Dr. Dexter Squibb of Florida Presbyterian College in a research project dealing with the chemical content of the water of selected lakes in Florida. This study is a part of a much larger research project being done at the college. It is under the direction of Dr. Squibb and Dr. Reid, both of Florida Presbyterian College.

The chemical research team at Northeast is performing some of the routine chemical analysis which provide a small, but vital part of the data. About eighty chemical samples per week are being analyzed for total hardness and calcium. The team plans to carry out other chemical tests on water samples as soon as room is provided.

At present the students on the research team are William Driskell, Lee Hersey, Glenda Hiley, Richard Roy, Marjorie Schwartz, Harold Sinclair, Nancy Vogt and William Zewadski. You can find these hardworking students amidst an array of chemical apparatus and solutions in the northeast corner of the chemistry laboratory in D-9 each day. They are gaining valuable experience in keeping research data and performing highly accurate analytical procedures requiring fine chemical techniques.

A National Defense Education Act grant has provided funds for the purchase of many pieces of much needed equipment. Also, funds were available for the remodeling of D-10 to provide a small research laboratory in which to carry on the many complicated

functions that this project entails. Some of the larger pieces of equipment to be used are: a Christian-Becher Chainomatic Analytical balance of high sensitivity, a Beckman "Zeromatic" H Meter for determining acid base content, a Beckman "Spectronic 20" spectrophotometer colorimeter, a laboratory cart, and several hot plates. Many pieces of glass and hardware have been received and are being put into immediate use. This equipment represents a valuable addition to the Science Department and will be placed into general use for the department upon completion of the research.

**Editor Pat Teague
Heard Billy Graham**

WINTER PARK, FLA., Dec. 18, 1961—Miss Pat Teague, a Rollins College senior from St. Petersburg, will attend the Sixth International Student Missionary Convention, Dec. 27-31, at the University of Illinois in Urbana.

She will be one of 5,000 college and nursing school students from across the country who will hear evangelist Billy Graham speak at the session.

Miss Teague, who intends to enter the missionary journalism field upon completing her education, is active in the Inter-Varsity Christian Fellowship, which is sponsoring the unique missionary convention.

A graduate of Northeast High School and St. Petersburg Junior College, where she was editor of their school newspapers, Miss Teague is active on several Rollins publications. She is feature editor of the Sandspur, student weekly. Her parents are Mr. and Mrs. R. H. Teague of St. Petersburg. She graduated from Northeast High School in 1958.

**Quill and Scroll
Holds Initiation
Elect Officers**

The Quill and Scroll International Honor Society for high school journalists was organized on April 10, 1926, for the purpose of encouraging and rewarding individual achievement in journalism and allied fields.

The purpose of Quill and Scroll is to instill into students the ideal of scholarship to advance the standards of the profession of journalism by developing better journalists and by inculcating a higher code of ethics to promote exact and dispassionate thinking and forceful writing.

Some of the qualifications for membership in Quill and Scroll are: You must be either a junior or senior, done superior work in some phase of journalism, and recommended by your supervisor.

NeHi's Quill and Scroll Club met for their first meeting December 5. Preceding the initiation of new members, Courtland Anderson, City Editor of the St. Pete Times, explained the importance of communications in all phases of life and discussed the requirements necessary for a job in the journalism field and the job opportunities available after the requirements are met.

Pam Spencer led the initiation service while the other old members of Quill and Scroll, Carol Day, Kathy Jackson, Linda Quibell, Barbara McCormack, and Joyce Steinhart, prepared to hand out pins and membership cards to the new members.

The students who have met all the requirements necessary to become a member of this honorary club are as follows: Sherry Hucks, Barbara Jones, Susan Zanow, Eileen Bell, Leigh Cook, Patti Henderson, Janice Good, Carol Benick, Betty Jean Fruth, Susan Gregory, Karen Perlmutter, Taylor Quarles, Ann Skiles, Liz Elwell, Marcia Crain, Vera Buckner, Jane Ann Cordes, Nancy Wright, Liz Cutler, Candy Jones, Nancy Russell, Joe Lettelier, Meg Fresh, Linda Arnold, Martha Bond, Mary Jane Martin, Lance Abair, and Bill Driscoll.

This year's officers were elected also. President, Barbara McCormack; Vice President, Liz Cutler; Secretary, Joe Lettelier; and Treasurer, Candy Jones. The Activities Chairman, Nancy Russell, and Program Chairman, Jane Ann Cordes, were selected by the new president.

**Walter Swan Teaches
New Chemistry Course**

A new course being offered at Northeast this year is advanced chemistry. Walter Swan is teaching this one semester course which meets during fourth period each day. It is open to juniors and seniors who have completed one year of Chemistry "A" with a "C" or better average. Students wishing to take this new course should also have better than average grades in mathematics, especially algebra II.

The purpose of the course is to give students the opportunity to investigate some of the advanced areas of chemistry with which they may come into contact while in college. The course helps students to improve their laboratory techniques also.

The first six weeks of the course is devoted to a brief review of the basic concepts and advanced theories of chemistry, with emphasis placed on the mathematics of chemistry used in solutions, equations and chemical equilibrium.

During the second six weeks the students will spend most of their time in the laboratory with a limited number of lectures. They perform analyses for various metals using semimicro equipment. Other special equipment used are electrical centrifuges, very small test tubes and centrifuge tubes.

The final six weeks are spent in studying various laboratory techniques used in quantitative analysis. Assorted materials are analyzed for the quantity present. Also included in the final six weeks period is the study of complexes.

Anyone who is interested in taking advanced chemistry second semester should see Mr. Swan in B-8 during fifth or sixth period.

**High School Diploma
Necessary For Success**

What is the absolute minimum amount of education that young people need today?

Ask leaders in private industry, armed forces officials, or businessmen. One and all, they will tell you that twelve years of schooling, denoted by a high school diploma, is the bare essential for a young man or woman who is going out to compete with others for good civilian jobs or for special training and interesting assignments in the armed forces.

Why all this emphasis on the high school diploma? Why is the question "Are you a high school graduate?" always the first a young person hears when he inquires about joining one of the military services?

Let's look at some of the things this question tells the services about young people. First, the services have found that the person who has graduated from high school has ability to stick with a training program—he is not a quitter.

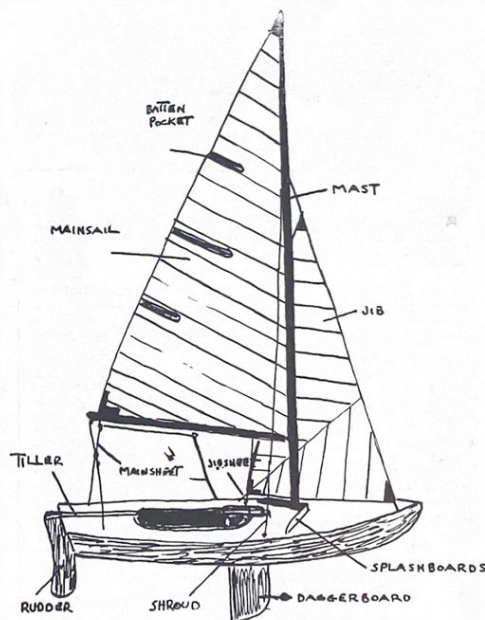
It indicates whether or not the individual has learned the value of education. As a graduate, he will be the one who wants more education, who can be depended upon to learn a job or special skill well.

Finally, it tells, to some extent, how mature and stable the individual is. If he is a graduate, he is quite likely to accept responsibility much better than the person who has failed to finish high school.

**Check Scholarships With
Guidance Department**

The American College Test will be administered on February 24 or April 21. I wish to bring this to the attention of all seniors who should check the catalogue of the college they plan to attend since many colleges and universities require this test. The fee for this test is three dollars and application must be made at least one month in advance.

(See page 6, col. 4)



Know Your Sail Boats—(Story Page 4-5)

PLACES TO GO-THINGS TO DO

A black and white photograph showing a woman on the left and a man on the right. The woman is wearing a light-colored, possibly white, blouse with a dark belt. She is smiling and looking towards the camera. The man is wearing a dark suit and is looking down, possibly at something in his hands. They are standing in a doorway or a narrow hallway. The background is dark and indistinct.



The Hall are wished *Bon Voyage* by an date.

someone who is at MacDill Air Force Base can arrange to get a visitor's pass to allow you and your date to tour the base and watch non-commercial jets take off.

FOR PERFECT EVENING

For a perfect evening (he prepared for the expense!), take your date out for dinner at a sea-

Don't ever be guilty of exclaiming, "There's nothing to do around this town!" Read the newspaper, listen to school announcements, and keep your eyes open for new and fascinating places to go, things to do. It is unfair to let your parents or friends to plan your social activities for you. Put out and use your own ingenuity in thinking of date ideas.

A Tough Life

"I had the toughest time of my life." First, I got angina pectoris and then arteriosclerosis. Just when I was recovering from these, I got tuberculosis, double pneumonia and phthisis. Then they gave me hypodermics. Appendicitis was followed by tonsilectomy. These were a way to aphasia and hypertrophic cirrhosis. I completely lost my memory for a while. I know I have diabetes and acute indigestion, sciatica, gastritis, thrombosis, dizziness, dandruff, hemorrhoids, bags and neuritis. I don't know how I pulled through it. I've had the hardest spelling test I've ever had!"

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CHEERLEADER
JAN DRISCOLL

Being elected to the varsity cheerleading squad is listed as the most exciting moment in the life of junior cheerleader, Jan Driscoll.

This peppy gal says all water sports are her favorite hobbies. Other likes include the book, *Gone With the Wind*, the magazine, *Seventeen*, actress, Debbie Reynolds, and singer, Johnny Mathis.

Besides being a varsity cheerleader, Jan is vice president of the Rojans club.

Jan dislikes anyone who talks about school spirit but does nothing about it. She says that school spirit is great now, but it can always be improved.

Throughout the day Jan may be found in English III, Latin II, Algebra III, journalism, American history, and chemistry.

After graduating from Northeast Jan plans to attend college. Jan is still undecided as to which college she will attend.

SPORTS DESK

By Joe Lettelleir

1961 ushered in the opening of the 1962 basketball season, and with this came numerous wins for the Vikings. The Christmas tournament at Boca Ciega High School ended with Dixie Hollins on top for the second straight year.

MANATEE

A 12 to 12 first quarter tie led to a final 65-58 win for the Vikings. Breaking from this tie, Northeast led at halftime, 25-16.

The third quarter brought a series of missed shots. The Vikings connected on only two of 11 field shots, while the excellent shooting and fast breaking of Del Warner and Ed Mahoney gave Manatee 18 points and a 46-42 third quarter advantage.

That's when the Vikings made a change and used their full court press. The Hurricanes folded under the pressure, and Northeast again took over the game. Rob Amley pulled down 14 rebounds which helped give the home team a 40-29 rebounding edge.

The junior varsity won 58-50 with Bruce Spooner taking high point honors with 14 points.

BOCA CIEGA

A three minute overtime period proved fatal to the Vikings as Boca Ciega ended with a 62-55 win.

The entire game was played with the score jumping from team to team. Excitement ran high as the game kept the spectators on the edge of their seats.

OPEN SESAME

(From page 2, col. 4)

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NeHi was hampered with the Pirate's 6'7" Jim Wallace and 6'5" Skip Carr. Despite the height disadvantage, the mighty five handed in an excellent performance against the Pirates.

PLANT

Northeast chalked up their second conference win as they met with the Panthers of Tampa.

Plant and Northeast practically matched points throughout the game. With the combined efforts of all the players, NeHi came out on top, 69-65.

Led by Frank Celby and Ken Doyle, the Panthers battled to the very end, but to no avail as the fine rebounding of Amley and excellent shooting of the entire team put Northeast ahead.

DIXIE HOLLINS

The Rebels of Dixie Hollins captured their 25th straight win as they topped the Vikings 82-67. The Boca Ciega gym was packed as Northeast moved to a 15 to 11 first quarter lead.

The slow starting Rebels came back in the second period, but only managed to lead 34-31 at halftime. The third quarter got under way with Dixie taking most of the scored points. Gary Evitt Keller, 6'9", was hampered by NeHi's ace rebounder, Amley. Nevertheless, he still managed to sink 33 points. The third period ended in Dixie's favor 55-45.

BOOK REVIEW

(From page 2, col. 1)

can hold her head high again. The personal tragedy that follows his realization of what he has done, makes a fascinating twist-ending to the plot.

Through this novel John Steinbeck probes deeply into the moral fabric of our time. His portrayal of the problems of the world and of small businesses are realistic and colorful. In this, his first major novel since *EAST OF EDEN* almost ten years ago, John Steinbeck returns to the theme he regards as central in our life "the never ending contest in ourselves of good and evil."

Through the introduction of each important character, the rising and falling of Hawley's world of fact and fantasy, to the final steps caused by friendly persuasion, the author holds undulled the reader's interest. He presents a straight forward picture of the world around us—a must for young America.

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MAJORETTE
LINDA TOPE

Linda Tope, known to her friends as "Lenny," is one of Northeast's high-stepping majorettes. Lenny comes to NeHi from Lealman where she was a majorette also.

When not practicing with the band, Linda spends her time swimming, dancing, or collecting stuffed animals. She is quite busy in many activities at school and participates in Youth for Christ, Hi-Tri-Y, and acts as secretary of Future Homemakers of America.

Some of Linda's favorites include the book, *Gone With the Wind*, the movie, *Ben Hur*, and the record, *Fool Number One*. Another of Linda's favorites is NeHi, which she emphatically states is the "best yet!"